

ITONIYEV, G.A., inzhener.

New ways of drying tunnels. Put. i put.khoz. no.4:34-35 Ap '57.  
(MLRA 10:5)  
(Tunnels)

~~ITRA- CZEUGE, Andras~~

Epidemiological data on bovine tuberculosis. Tuberkulosis 10  
no. 3-4: Mar-Apr 57.

1. A Bekesmegye, Jaszef Attila Tbc Gyogyintezet (igazato- foorvos:  
Gyorfif Boldizsar dr.) kozlemenye.  
(TUBERCULOSIS, BOVINE, epidemiol.  
in men in Hungary (Hun))

ITS, R. F.

"K problemye sootnosheniya klassov i gosudarstva (po materialam lyanshan'skikh  
itszu)."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,  
Moscow, 3-10 Aug 64.

S/064/62/000/002/002/008  
B101/B144

AUTHORS: Mukhina, T. N., Lesokhina, G. F., Itsek, S. Ye.

TITLE: Pyrolysis of straight-run low octane number gasoline to butylenes, divinyl and aromatic hydrocarbons

PERIODICAL: Khimicheskaya promyshlennost', no. 2, 1962, 4 - 6

TEXT: Gasoil from the Romashkino deposit (specific weight 0.730, mean molecular weight 105) was submitted to pyrolysis in a laboratory apparatus. The pyrogas was analyzed chromatographically with an A-2 (KhPA-2) apparatus. Results: (1) The optimum butylene yield was obtained with 25% admixture of water vapor at 725°C and a contact duration of 0.5 - 1 sec, 7.8%. 750°C and a contact duration of 0.5 - 1 sec were the optimum for high butadiene yield: olefin yield about 51%, butadiene content in the C<sub>4</sub> fraction 30.4%. (2) Aromatization took place under conditions under which a pyrogas rich in olefins developed simultaneously. No water vapor was added. (a) Single-stage process: At 750°C, contact duration 4.0 sec, 8.5% benzene related to the initial gasoline was obtained. The benzene fraction contained 95.0% C<sub>6</sub>H<sub>6</sub>. At 750°C and contact duration Card 1/2 ✓

Pyrolysis of straight-run...

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B101/B144

of 4 sec, 3.8% toluene (93% in the toluene fraction) was obtained. The yield was: 20% ethylene, 4% propylene, 2% butylenes, 1.5% divinyl. (b) Two-stage process: After a contact of 1 - 2 sec at 725 - 750°C, the high-boiling part of the pyrocondensate was further pyrolyzed at 650 - 680°C with a contact duration of 10 - 20 sec. At a contact duration of 1 sec in the first stage (750°C) and 14 sec in the second stage (680°C), the content of aromatic hydrocarbons increased from 60% to 93 - 96%. At a contact of 2 sec in the first stage (725°C) and 15 sec in the second stage (650°C), the content of aromatic hydrocarbons increased from 45% to 80 - 85%. The suitability of the two-stage process depends on whether the increased costs may be covered by savings from easier separation of the aromatic hydrocarbons. There are 3 figures, 3 tables, and 2 references: 1 Soviet and 1 non-Soviet.

Card 2/2

MUKHINA, T.N.; LESOKHINA, G.F.; ITSEK, S.Ye.

Low octane straight-run gasoline decomposed by pyrolysis  
into butylenes, bivinyl, and aromatic hydrocarbons. Khim.  
prom. no.2:80-82 F '62. (MIRA 15:2)

(Gasoline) (Butadiene)  
(Butene)

S/204/62/002/004/007/019  
E075/E436

AUTHORS: Mukhina, T.N., Lesokhina, G.F., Itsek, S.Ye.

TITLE: Preparation of lower olefines, divinyl and aromatic hydrocarbons by the pyrolysis of benzene fractions

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 495-497

TEXT: An investigation was made of the pyrolysis of straight-run benzene from Romashkino crude, boiling between 30 - 180°C and having the molecular weight of 105. The pyrolysis was carried out in a tubular reactor on a laboratory and semi-industrial scale. High yields of ethylene, propylene, butylenes and divinyl were obtained at 800°C and contact time of 0.5 sec (ethylenic regime), the total yield of unsaturated hydrocarbons reaching 50% of the feed and the content of divinyl in the gaseous products being close to 45%. The liquid condensate has a highly aromatic nature. For the butylenic regime the best conditions are: temperature - 760°C, contact time - 1 sec at 50% steam dilution. The yield of butylenes reaches 645 kg and that of propylene 880 kg per 1 ton of ethylene produced. In addition 1800 kg of liquid condensate is obtained boiling between 47 - 195°C and Card 1/2

S/204/62/002/004/007/019  
E075/E436

Preparation of lower olefines ...

containing more than 50% of compounds capable of being sulphonated. The condensate has the research octane number of 84. The hydrogenated condensate resulting from the ethylenic regime pyrolysis has the "research" octane number of 99. It is concluded that the pyrolysis of benzenes gives a more flexible product distribution than that of n-butane or propane and may be economically advantageous. There is 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organiceskikh produktov (Scientific Research Institute of Synthetic Alcohols and Organic Products)

Card 2/2

MUKHINA, T.N.; ITSEK, S.Ye.

Effect of the fractional composition of gasolines on their pyrolysis products. Neftekhimiia 2 no.5:723-729 S-O '42. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i  
organicheskikh produktov.  
(Gasoline) (Pyrolysis)

ITSEK, S. Ye.; MUKHINA, T. N.; BARABANOV, N. L.;

Effect of aromatic hydrocarbons on the distribution of the  
products of gasoline pyrolysis. Khim prom no. 3:163-165  
Mr '64. (MIRA 17:5)

ITSEKSON, B.I., inzh.; TILLES, R.S., inzh.; SHULYAK, L.A., inzh.

Self-recording proportioning hoppers with remote control used in  
construction of the Bratsk Hydroelectric Power Station. Mekh.  
stroi. 19 no.8:23-24 Ag '62. (MIRA 16:7)

(Remote control)  
(Bratsk Hydroelectric Power Station—Proportioning equipment)

CHUMAKOV, M.P.; VOROSHILOVA, M.K.; ZHEVANDROVA, V.I.; MIRONOVA, L.L.;  
ITSELIS, F.G.; ROBINSON, I.A.

Isolation and investigation of the fourth immunological type of  
poliomyelitis virus. Vop.virus. 1 no.1:16-19 Ja-F '56. (MLRA 10:1)

1. Institut po izucheniiu poliomiyelita AMN SSSR, Moskva.  
(POLIOMYELITIS VIRUS,  
IV immunol. type, isolation (Rns))

ZALMANSON, Ye.S.; RAPPOROT, R.S.; ITSELIS, F.G.; TALLINSKAYA, A.Y.

Dissemination of poliomyelitis virus in the environment of the patient during the interepidemic period. Vop.virus 2 no.6:341-346 N-D '57. (MIRA 13:5)

1. Gorodskaya sanitarno-epidemiologicheskaya stantsiya, Moskva.  
(POLIOMYELITIS)

ITSELIS, F.G.

Etiology of focal outbreaks of febrile diseases during the summer  
of 1958 in Moscow and in Moscow Province. Vop. virus. 5 no. 2:242-  
243 My-S '60. (MIRA 14:4)

1. Gorodskaya sanitarno-epidemiologicheskaya stantsiya, Moskva.  
(MOSCOW PROVINCE—PLEURODYNIA, EPIDEMIC)

NOSOV, S.D., prof.; LADODO, K.S., kand.med.nauk; KUZ'MINSKAYA, G.Ya.;  
NIKOLAEVSKIY, G.P.; ITSELIS, F.G.; VINTOVSKINA, I.S.;  
KAGANOVICH, N.I., ZHUKOVA, L.D.; MIL'NER, E.I.; OSHEROVICH, A.M.  
PILATSKAYA, Ye.P.

Clinical epidemiological characteristics of certain viral infections  
in children's institutions. Pediatriia 39 no.4:6-13 Ap '61.

(MIRA 14:4)

1. Iz otdela detskikh infektsii (zav. - prof. S.D. Nosov)  
Instituta pediatrii AMN SSSR i epidemiologicheskogo otdela (zav. -  
S.A. Samvelova) Moskovskoy gorodskoy sanitarno-epidemiologicheskoy  
stantsii.

(VIRUS DISEASES)

ITSELIS, F. G.; YAMPOL'SKAYA, E. I.; ZALANZON, Ye. S.; MIL'NER, B. I.;  
ROZENBAUM, G. I.; TALINSKAYA, A. F.

Focus of mixed diseases due to poliomyelitis and Coxsackie  
[viruses] in a children's collective. Pediatrīja no. 6:15-19  
'62. (MIRA 15:6)

1. Iz sanitarno-epidemiologicheskoy stantsii Moskvy i Instituta  
pediatrii Ministerstva zdravookhraneniya RSFSR.

(POLIOMYELITIS) (COXSACKIE VIRUSES)

ITSELIS, F.G.

Study of the properties of the Coxsackie virus B3. Report No.1:  
Its properties in a tissue culture. Vop. virus 7 no.1:100-104  
Ja-F '62. (MIRA 15:3)

1. Moskovskaya gorodskaya sanitarno-epidemiologicheskaya  
stantsiya.

(COXSACKIE VIRUSES)  
(TISSUE CULTURE)

ITSELIS, F.G.

Study of the properties of Coxsackie virus B3. Report No.2: Pathogenicity of Coxsackie virus B3 to mice of various ages and its multiplication in their organism. Vop. virus 7 no.2:189-192 Mr-Ap '62. (MIRA 15:5)

1. Moskovskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya.  
(COXSACKIE VIRUSES)

VINTOVKINA, I.S., kand.med.nauk; ITSELIS, F.G.

Coxsackie infections in children. Pediatriia 42 no.1:  
37-42 Ja'63. (MIRA 16:10)

1. Iz otdela detskikh infektsiy (zav. - prof. S.D.Nosov)  
Instituta pediatrii (dir.- dotsent M.Ya.Studenikin) AMN  
SSSR i Moskovskoy gorodskoy sanitarno-epidemiologicheskoy  
stantsii (glavnnyy vrach M.S.Sokolovskiy).  
(COXSACKIE VIRUSES) (CHILDREN—DISEASES)

ITSENKO, G.I.

Treatment of pulpitis. Stomatologija no.3:11-12 My-Je '55.

1. Iz kafedry terapevticheskoy stomatologii (zav.prof. Ye.Ye. Platonov) Moskovskogo meditsinskogo stomatologicheskogo instituta; dir.dotsent G.N. Beletskiy)  
(DENTAL PULP, diseases,  
pulpitis, ther.)

ITSENKO, N. M.

"Epidemic lymphocytic choriomeningitis in children." p. 14-17

"On the clinical treatment of serous meningitis, based on material dating from 1941." p. 17-19

"Neuroinfections in Voronezh Oblast in 1946-47." p. 20-23.

"The neurology of so-called alimentary dystrophy." p. 48-55

"Some basic data on the optical-vegetative system." p. 55-58

WITH Deyneko, L. P., "The Clinical aspects of metastatic tumors of the brain," p 84-97

with Bogatinakaya, I. P. "Some variants of the syndrome of the later phases of comotric cerebri." p. 144-49

"The lumbar pain syndrome in patients with brain concussions." p. 150-52.

"The results of treating post-concussion conditions with diathermy of the head." p. 200-202.

Trudy Voronezhsk. gos. med in-ta, Vol. XVIII, 1949,

U-4631, 16 Sep 53 (Letopis' Zhurnal Statey, No. 24, 1949.)

PODOL'SKIY, S.V., kapitan med.sluzhby; ZELENSKIY, S.I., mayor med.sluzhby;  
ITSIGIN, B.Sh., mayor med.sluzhby

Medical practice in the infectious ward of a hospital. Voen.-med.  
zhur. no.10:84-85 O '58. (MIRA 12:12)

(MEDICINE, MILITARY AND NAVAL

med. serv. in infect. ward of Russian hosp. (Rus))  
(COMMUNICABLE DISEASES

infect. division of Russian military hosp. (Rus))  
(HOSPITALS,

infect. wards in Russian military hosp. (Rus))

BLINOV, O.S.; BELEN'KIY, Ye.L.; BRAUSEVICH, S.T.; DOROKHOV, B.A.;  
ZIGMUND, F.R.; ITSIKOV, G.B.; LEVER, A.A.;  
LESHCH-BORISOVSKIY, A.I.; MURTUZALIYEV, S.A.; PIIR, A.I.;  
YUZIKHIN, Ye.Ye.; YAKIMOV, I.D.; SHCHELKUNOV, V.V.,  
retsenzent; GONCHAROV, A.F., otv. red.; KORCHUNOV, N.G.,  
otv. red.; NIKOL'SKIY, B.V., otv. red.; POSTREMOV, G.A.  
[deceased]; SLUTSKER, M.Z., red. izd-va; SHIBKOVA, R.Ye.,  
tekhn. red.

[Lumbering; land transportation of timber] Lesozagotovki;  
sukhoputnyi transport lesa. Spravochnik. Moskva, Mosles-  
bumizdat, 1962. 504 p. (MIRA 16:7)

(Lumber—Transportation)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSIKSON, B.; TSVETKOV, D.

Brief news. Gaz. prom. 8 no.4:55 '63.

(MIRA 17:10)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSIKSON, B.S.

CA

Oversize application of charcoal. V.  
Shanks and B. S. Itskson. Item #7,047, Dept. 30, 1940.  
Construction Bureau.

Co-inventors are present: B. S. Itskson, V. I.  
Khish, V. A. Domchenko, and L. O. Odzov. U.S.S.R.  
No. 422, Nov. 20, 1947. M. H.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

MEZMOZGIN, E.S.; ITSIKSON, B.S.; SIMEL'NIKOV, A.S.

Obtaining high caloric gas from shale in a uniflow pyrolytic gas  
generator. Trudy VNIIPS no.5:142-153 '56. (MLRA 10:5)  
(Oil shale--Refining)

SIDORENKO, M.V., glavnnyy red.; ZAREMBO, K.S., red.; KREMS, Ye.A., red.; RAABEN, V.N., red.; RYABTSEV, N.I., red.; BRENTS, A.D., red.; ITSIKSON, B.S., red.; KOMISSAROV, P.G., red.; POPOV, V.I., red.; TESNER, P.A., red.; FAL'KEVICH, A.S., red.; STEPANCHENKO, N.I., vedushchiy red.; NOVIKOVA, M.M., vedushchiy red.; MUKHINA, B.A., tekhn.red.

[Ways of developing the gas industry of the U.S.S.R.; transactions of the All-Union Conference on Further Development of the Soviet Gas Industry] Materialy Vsesoyuznogo soveshchaniya po dal'neyshemu razvitiyu gazovoi promyshlennosti SSSR: Puti razvitiia gazovoi promyshlennosti SSSR. Moskva, Gos.nauchno-tekhnic.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 432 p. (MIRA 12:4)

1. Vsesoyuznoye soveshchaniye po dal'neyshemu razvitiyu gazovoy promyshlennosti SSSR, Moscow, 1957.  
(Gas industry)

ITSIKSON, B.

Liquefied gases as raw stock for the chemical industry. Gas.  
prom. 9 no.6:1-2 '64. (MIRA 17:8)

ITSIKSON, Boris Semenovich; DENISOV, Yuriy Leonidovich;  
NOVIKOVA, M.M., ved. red.

[Infrared gas radiators and their use in the national  
economy] Gazovye infrakrasnye izluchateli i ikh ispol'zo-  
vaniye v narodnom khoziaistve. Moskva, Nedra, 1965. 109 p.  
(MIRA 18:3)

ITSIKSON, Galina Vsevolodovna; KURIK, N.N., redaktor; BABINTSEV, H.I.,  
redaktor izd-va SVV; Burova, O.A., tekhnicheskiy redaktor

[Hydrothermal exchanges in wall rock of tin deposits in the lesser  
Khingan] Gidrotermal'nye izmeneniia vmeschaniushchikh porod olovo-  
rudnogo mestoroshdeniya na Malom Khingane. Moskva, Gos.nauchno-  
tekhn. izd-vo lit-ry po geol. i okhrane nadr, 1956. 133 p. (MLRA 10:2)  
(Khingan Mountains--tin ores)

ITSIKSON, G. B.

"On the Geology and Metallogeny of Malyy Khingan"

report presented at the First All-Union Conference on the Geology and Metallurgy  
of the Pacific Ocean Ore Belt, Vladivostok, 2 October 1960

So: Geologiya Rudnykh Mastorozhdeniy, No. 1, 1961, pages 119-127

ITSIKSON, G.V.

Structural regionalization and geological development of the  
Lesser Khingan Mountains. Trudy VSEGEI 55:5-63 '61. (MIRA 15:4)  
(Khingan Mountains--Geology)

ITSIKSON, G.V.; CHEBOTAREV, M.V.

Distribution of intrusive complexes and mineralization associated  
with them. Trudy VSEGEI 55:123-176 '61. (MIRA 15:4)  
(Khingan Mountains--Rocks, Igneous)  
(Khingan Mountains--Ore deposits)

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CIA-RDP86-00513R000618920009-6

SHCHEGLOV, A.D.; BEUS, A.A.; BORODIN, L.S.; ITSIKSON, G.V.; PAVLOVSKIY,  
A.B.; RUNDKVIST, D.V.; SIDORENKO, Z.V.; TVALCHRELIDZE, G.A.

Conference on the problems of postmagmatic ore formation.  
Sov. geol. 7 no.3:144-153 Mr '64. (MIRA 17:10)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

ITSEIKSON, G.V.

Characteristics of metasomatism in the formation of carbonates  
as revealed by a study of Siberian provinces. Sov. geol. 7 no.6:  
44-60 Je '64 (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

GIVSHIN, S.Ye.; ITSIKSON, G.V.; LOVI, B.I.

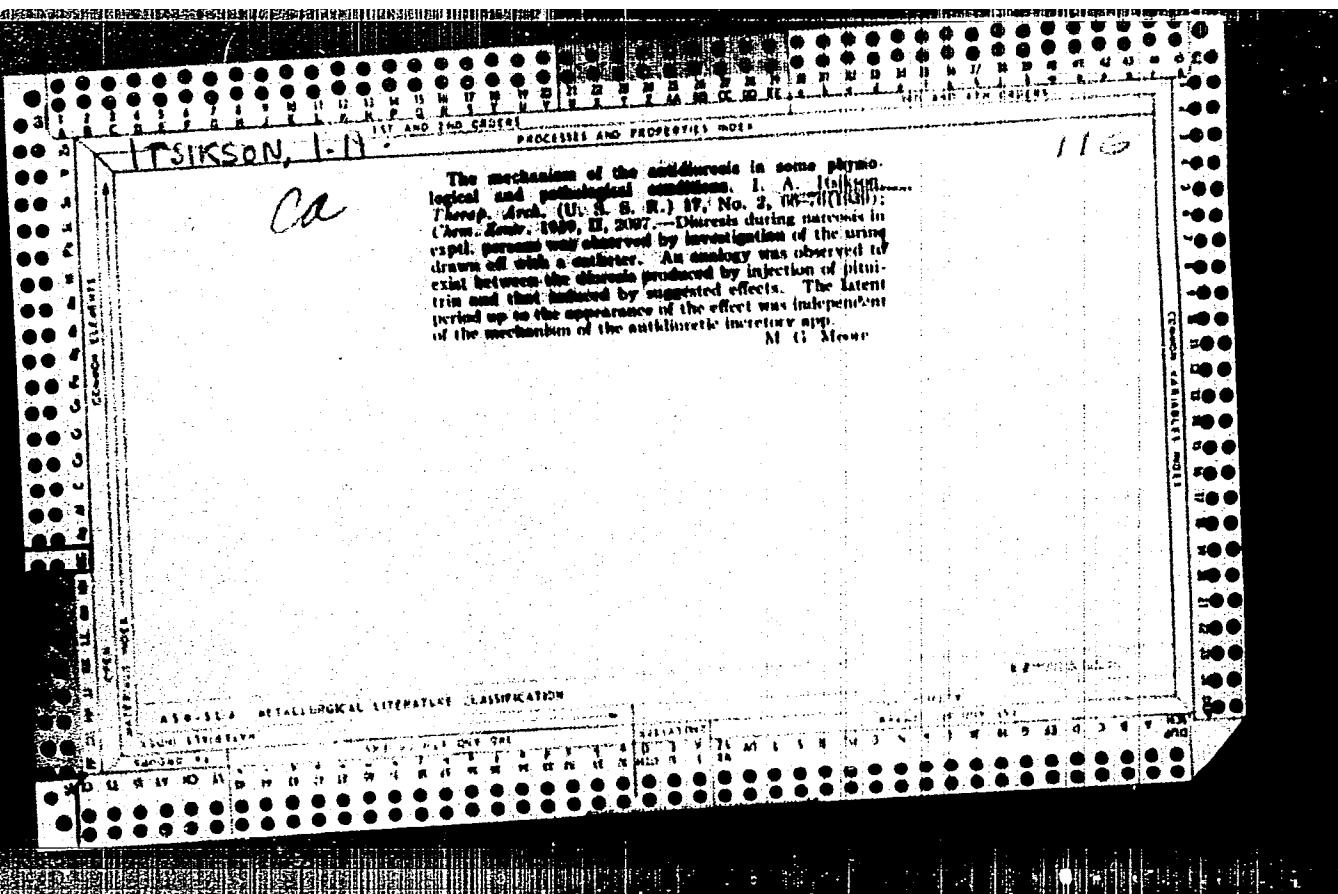
Moissanite in carbonatite deposit. Zap. Vses. min. ob-va 92 no.6:  
716-718 '63. (MIRA 18:3)

ITSIKSON, G.V.

Relation of granitization in intergeosynclinal uplifts to movements in geosynclinal troughs as revealed by a study in the Bureya Massif. Geol. i geofiz. no.3:37-46 '64.

(MIRA 18:7)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut, Leningrad.



ITSIKSON, I. A.

"Changes in the Lipid Composition of Brain Tissue Due to Cephaloedema," Vop. Neyrokhirurgii, 12, No.1, 1948

Inst. Neurosurgery im. Burdenko, AMS USSR

ITSIKSON, I. A.

ITSIKSON, I. A.

Effect of the section of abdominal nerves and removal of the first and second lumbar sympathetic ganglia on the renal function in high blood pressure. Ter. arkh. 22:3, May-June 50. p. 35-8

1. Of the Clinical Laboratory (Head--Prof. L. G. Sedrina), Institute of Neurosurgery imeni Academician N. N. Burdenko of the Academy of Medical Sciences (Director--Prof. B. G. Yegorov, Corresponding Member of the Academy of Medical Sciences).

GIML 19, 5, Nov., 1950

RAPOPORT, I.B.; BOL'DBERG, V.M.; ITSIKSON, L.B.

Dehydrogenation of alcohols on a copper-calcium catalyst. Zhur.  
prikl.khim. 34 no.11:2544-2550 N '61. (MIRA 15:1)  
(Alcohols) (Dehydrogenation)

S/062/62/000/008/011/016  
B117/B180

AUTHORS: Korshak, V. V., Kudryavtsev, R. V., Sergeyev, V. A., and Itsikson, L. B.

TITLE: Investigation of hydrolytic polymerization mechanism of  $\epsilon$ -caprolactam in the presence of water containing a heavy oxygen isotope

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 8, 1962, 1468-1470

TEXT: In this investigation the water contained 6%  $O^{18}$ .  $\epsilon$ -caprolactam and the labeled water, in a 1:1.5 ratio, were heated for 6 hrs at  $200^{\circ}C$ . The molecular weight of the resulting poly- $\epsilon$ -caproamide was relatively low, and its  $O^{18}$  content the same as with an exchange reaction. From this it is concluded that the monomer links on to the end groups of the growing polymer chain during the reaction. When the polymer was heated for 3 hrs at  $250^{\circ}C$  in argon, the viscosity of the solution was found to be higher than that of the initial polymer, (from  $[\eta] = 0.38$  to  $[\eta] = 1.76$ ), ✓

Card 1/2

Investigation of hydrolytic ...

S/062/62/000/008/011/016  
B117/B180

as also the molecular weight. In the final stage of the reaction, if all the water can be removed, polycondensation of the macromolecule will occur due to the reaction between amino and carboxyl end-groups. The course of the hydrolytic polymerization of  $\epsilon$ -caprolactam described above confirms earlier predictions (V. V. Korshak and T. M. Frunze, Izv. AN SSSR. Otd. khim. n. 1955, 376). There is 1 table.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR).

SUBMITTED: January 31, 1962

Card 2/2

ITS IKSON, L.B.; MEDOVIKOVA, N.Ya.; KHEYFETS, Ye.M. [deceased]; RAPOPORT, I.B.

Use of type NaA synthetic zeolites in the drying of alcohols.  
Khim. i tekhn. topl. i masel 10 no.8:25-27 Ag '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke  
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.

ITSYKSON /r)

SOV/115-59-6-5/33

25(1), 28(2)

AUTHOR: Itsyksion, L.M., Reyzina, G.L.

TITLE: An Instrument for Calculating the Clearance Between a Crankshaft Journal and the Crankcase Bearing Seat

PERIODICAL: Izmeritel'naya tekhnika, 1959, Nr 6, pp 16-17 (USSR)

ABSTRACT: The authors describe a simple device for calculating the clearance between a crankshaft journal and the crankcase bearing seat as suggested by N.I. Yendrzheyevskiy. This device is shown in Fig.2. It consists of two disks on which two dials are glued. The dials are manufactured without any difficulties by photography of drawings. The cost of manufacturing of this device is negligible. The device is successfully used in shop work. The authors describe in detail the procedure for developing the dial. There are 2 diagrams.

Card 1/1

ITSIKSON, L. YA.

"X-Ray Examination of Gunshot Wounds of the Eye Socket." Sub 17 Jun 47,  
Central Inst for the Advanced Training of Physicians

Dissertations presented for degrees in science and engineering in  
Moscow in 1947

SO: Sum No. 457, 18 Apr 55

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSIKSON, L. Ya.

"Stereoskiagraphy for Combat Injuries of the Eye," Vest. Oftalmol., 27,  
No.3, 1948

Central Inst. Ophthalmology im. Bel'mgol'ts

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSIKSON, L. Ya.

Itzikson, L. Ya. "Rare cases of dermoid with microphthalmia," Soornik nauch. rabot, posvyashch. pamyati akad. Averbakha, Moscow-Leningrad, 1948, p. 71-74

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, No. 3, 1949)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

ITSIKSON, L.Ya.

Interruption of blood supply of the basal arteries in so-called pseudo-glaucoma. Vest. oft., Moskva 31 no.1:7-11 Jan-Feb 52. (CIML 21:5)

1. Senior Scientific Associate. 2. Of the Roentgen Division (Head—Prof. M.M. Baltin, deceased), Central Institute of Ophthalmology imeni Gel'mgol'ts.

EXCERPTA MEDICA SEC. 12 Vol. 12/8 Cphth. Aug. 58

ITSIKSON, L. Ya.  
1355. THE X-RAY TREATMENT OF STAGE III TRACHOMA (Russian text) -  
It'sikson L. Ya. and Vanshtein E. S. - SBORN.INFORM.-METOD.  
MATERIAL. INST. 1956, 4 (114-116)

Irradiation was carried out using hard rays from a RUM-3 apparatus (filter 0.5 mm. Cu + 1 mm. Al) with a current strength of 10 ma. and a potential of 160 kv. The eyeball was not protected. The individual dose was 30 r. and the total 300-350 r. X-ray therapy was given to 34 patients mainly with stage III trachoma. In 18 cases, X-ray therapy was given in conjunction with massage with synthomycin (chloramphenicol), biomycin (chlortetracycline) and albucid, and expression. Fourteen patients received X-rays only. The use of X-rays in combination with massage, synthomycin, albucid and expression did not give optimal results when compared with X-rays alone. X-ray therapy gave good results in stage III trachoma, as shown by diminution of hyperaemia, reduction of infiltration, resolution of follicles, delicate scar formation and reversal of pannus development. (S)

ITSIKSON, L.Ya., kandidat meditsinskikh nauk

X-ray detection of foreign bodies within the eye according to  
Professor M.M.Baltin's method (face upward). Oft,zhur. 11 no.1:  
8-11 '56. (MLRA 9:9)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta  
glasnykh bolezney imeni Gel'mgol'tsa.  
(EYES--FOREIGN BODIES) (DIAGNOSIS, RADIOSCOPIC)

ITSIKSON, Liya Yakovlevna; VAYNSHTEYN, Yevsey Solomonovich;  
~~BELOSTOTSKIY, Ye.N.~~, red. [deceased]; LYUDKOVSKAYA, N.I.,  
tekhn. red.

[Use of X rays in the diagnosis and treatment of eye diseases]  
Primenenie rentgenovykh luchei v diagnostike i lechenii glaz-  
nykh boleznei. Moskva, Medgiz, 1961. 283 p. (MIRA 15:7)  
(EYE DISEASES AND DEFECTS)  
(X RAYS--THERAPEUTIC USE)

FRADKIN, M.Y., prof.; VILERKINA, A.Ya., doktor med.nauk; ITSIASON, L.Ya.,  
kand.med.nauk; VAYNSHTEYN, Ye.S., nauchnyy sotrudnik

Radiation cataract and its treatment. Vest. rent. i rad. 36 no.4:  
83-85 Jl-Ag '61. (MIRA 15:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta glaznykh  
bolezney imeni Gel'mgol'tsa (dir. A.V.Roslavtsev).  
(RADIATION SICKNESS) (CATARACT)

GURTOVOY, G.K.; ITSIKSON, L.Ya.; BYVSHEVA, O.N.

Radiophosphorus diagnosis of ocular tumors and the ways for its improvement. Vest.oft. no.3:9-15 My-Je '62. (MIRA 15 #8)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgoltsa (direktor A.V. Roslavtsev). (PHOSPHORUS--ISOTOPES) (EYE--TUMORS)

FRADKIN, M.Ya.; VILENKINA, A.Ya.; ITSIKSON, L.Ya.; VAYNSSTEIN, Ye.S.

Biochemical principles and the differential diagnosis of primary cataracts. Uch.zap. GNII glaz.bol.no.8:7-12'63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut glaznykh bolezney imeni Gel'mgol'tsa.  
(CATARACT) (DIAGNOSIS, DIFFERENTIAL)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

FRADKIN, M.Ya.; VILENKINA, A.Ya.; ITSIKSON, L. Ya.; VAYNSETEYN, Ye.S.

Conservative treatment of initial cataracts. Uch.zap. GNII  
glaz.bol. no.8:84-90'63. (MIRA 16:9)  
(CATARACT) (CYSTEINE)

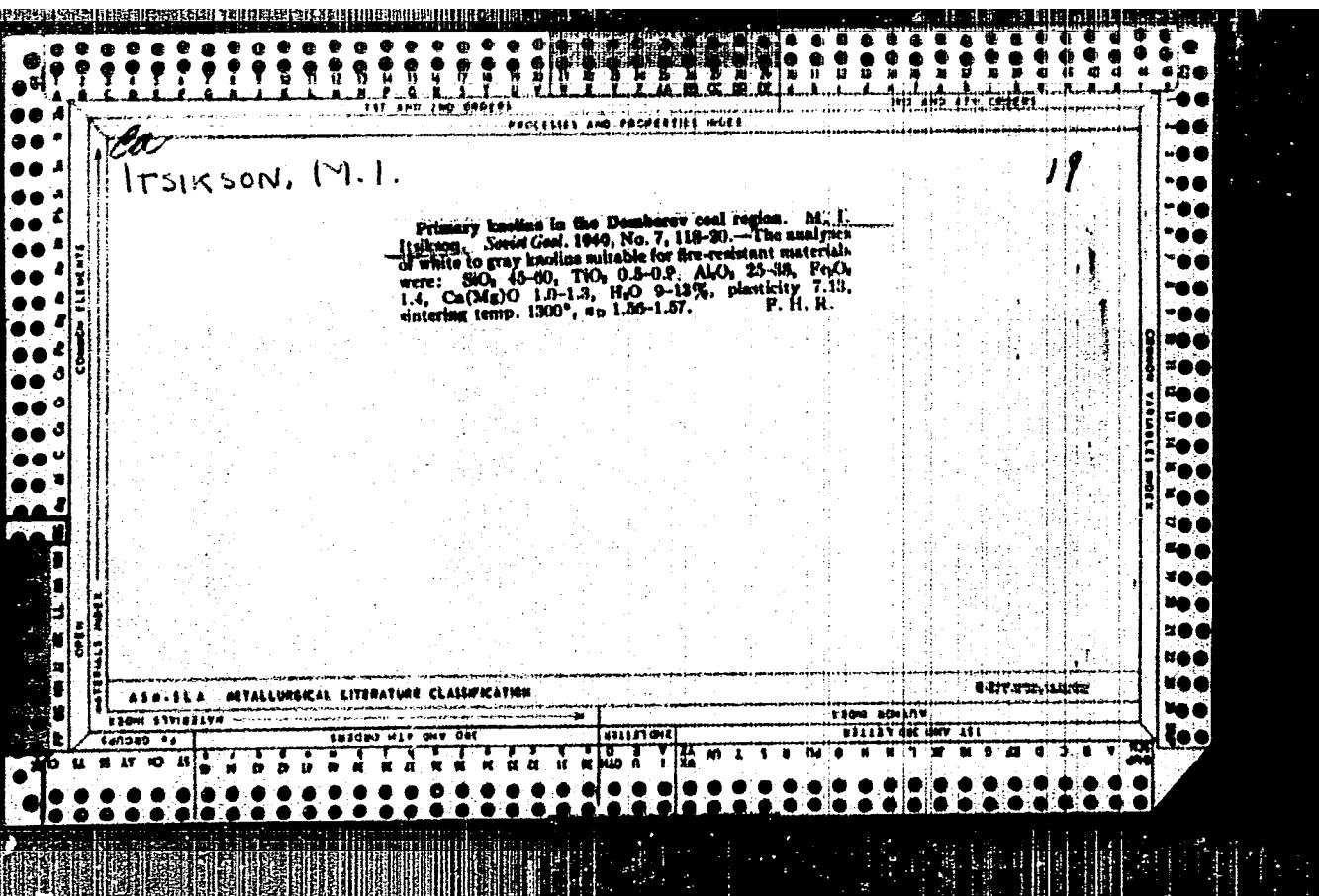
APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

SIKHARULIDZE, I.A., zasl. deyatel' nauki, prof., oty. red.; BERADZE, N.I., dots., oty. red.; ARKHANCEL'SKIY, V.N., prof., red.; ABULADZE, V.A., red.; ANTELAVA, D.N., kand. med. nauk, red.; BOGOSLOVSKIY, A.I., doktor biol. nauk, red.; BUNIN, A.Ya., kand. med. nauk, red.; VILENKINA, A., doktor med. nauk, red.; VISHNEVSKIY, N.A., prof., red.; ZARUBIN, G.S., nauchn. sotr., red.; ITSIKSON, L.Ya., kand. med. nauk, red.; KRASNOV, M.L., zasl. deyatel' nauki, prof., red.; MACHARASHVILI, P.D., zasl. vrach Gruz. SSR, red.; PUCHKOVSKAYA, N.A., prof., red.; RABKIN, Ye.B., prof., red.; RSHZHECHITSKAYA, O.V., kand. med. nauk, red.; RDSLAVTSEV, A.V., st. nauchn. sotr., red.; TARTAKOVSKAYA, A.I., kand. med. nauk, red.; FRADKIN, M.Ya., prof., red.; KHAYUTIN, S.M., prof., red.; CHERNYAKOVSKIY, G.Ya., kand. med. nauk, red.; CHKONIYA, E.A., kand. med. nauk, red.; SHATILOVA, T.A., doktor med. nauk, red.; YAKOVLEV, A.A., nauchn. sotr., red.

[Materials of the Second All-Union Conference of Ophthalmologists] Materialy Vsesoiuznoi konferentsii oftal'mologov. Tbilisi, Respublikanskoe nauchn. ob-vo oftal'mologov Gruz.SSR, 1961. 498 p. (MIRA 18:1)

1. Vsesoyuznsaya konferentsiya oftal'mologov, 2d, Tiflis, 1961.
2. Chlen-korrespondent AMN SSSR (for Arkhangel'skiy).



TSIKSON, M.I.

Scattered elements in cassiterite deposits of the Far East. (According to spectral-analytical data). M. I. Itskinson and A. K. Rusanov. *Invest. Akad. Nauk S.S.R., Ser. Geol.* 1946, No. 6, 119-30; *Chem. Zentral.* 1947, I, 1188. The results of spectral analyses on 72 samples from 21 Sn deposits are reported. V was found in 62 samples in amounts of 0.001-0.01%, Cr was found in 5, and Mo in about 20 in amounts of 0.001-0.1%. The W content was 0.1-1.0%. Cb and Ta occurred with pegmatite in amounts up to 1.0%. Pb, Cu, and In were always found; Ag, Bi, Sn, Te, and Co were less frequently found; Ni, Cu, As, Zn, and Be were seldom found; and Hf, Ti, Cd, and Ce were still less frequently found. In comparison with other Sn deposits of Russia, those of the Far East are distinguished by the fact that Pb, Cu, In, V, and W are always present and Ge is absent. Mo is typical for pegmatite, less so for the sulfide-cassiterite deposits. Higher contents of W, In, and Co occur in the latter.

## **APPENDIX B: BIBLIOGRAPHICAL LITERATURE CLASSIFICATION**

APPROVED FOR RELEASE: 08/10/2001

**CIA-RDP86-00513R000618920009-6"**

ITSIKSON, M. T.

21T102

Sep 1946

USER/Metals

Indium

Tin

Indium in the Tin-Ore Deposits of the Far East,  
MITSIKSON, A.K.RUSSENOV, 2 PP

"Gemtsev Rendus (Doklady)" Vol LIII, No 7

Discussion is made of the spectroscopic analysis of  
72 cassiterite specimens taken from the Middle and  
Lower Amur region and Sikhote-Alin. Conclusions are  
reached that the tin-ore region in the east and north-  
east Soviet Union is also an indium region. Highest  
concentrations of indium should be found in cas-  
siterites of sulfide-cassiterite formation and in  
21T102

USER/Metals (Cont'd)

Indium

Tin

Lignite stone from xenothermal deposits near the  
surface.

Sep 1946

21T102

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSIKSON, M.I.; PRONOF'YEV, A.P.; SHEYH, V.Z.; TIMOFEEVSKAYA, G.V.

Genetic features of the Lesser Khingan Range tin-bearing region.  
Sov.geol. no.14-15:43-57 '47.  
(Khingan Range, Lesser-Tin areas) (MIRA 8:8)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

ITSIKSON, M.I.

Spectrum analysis in mineralogy, geology, and in prospecting for mineral resources. Trudy VSEGEI no.2:51-55 '50.  
(Spectrum analysis) (Mineralogy) (MLRA 6:6)

ITSIKSON, M.I.

[Slime testing in geological surveying and spot prospecting]  
Shlikhovoe oprobovanie pri geologicheskoi s"emke i obzornykh  
poisakh. Moskva, Gos. izd-vo geol. lit-ry, 1953. 57 p. (Tru-  
dy Vsesoiuznogo nauchno-issledovatel'skogo geologicheskogo  
instituta Ministerstva geologii i okhrany nadr.) (NIRA 7:3)  
(Prospecting)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

VOZNESENKIY, D.V.; AMELANDOV, A.S.; CHYSLER, A.N.; GOLUBYATNIKOV, V.D.;  
[deceased]; DOMAREV, V.S.; DOMINIKOVSKIY, V.N.; DOVZHIKOV, A.Ye.;  
ZAITSEV, I.K.; IVANOV, A.A.; ITSIKSON, M.I.; IZOKH, E.P., KNYAZEV,  
I.I.; KORZHENEVSKAYA, A.S.; MISHAREV, D.T.; SEMENOV, A.I.; MORO-  
ZENKO, N.K.; NEFEDOV, Ye.I.; RADCHENKO, G.P.; SERGIYEVSKIY, V.M.;  
SOLOV'YEV, A.T.; TALDYKIN, S.I.; UNKSOV, V.A.; KHABAKOV, A.V.;  
TSEMCHOMSKIY, A.M.; CHUPILIN, I.I.; SHATALOV, Ye.T.; glavnyy redak-  
tor; KRASNIKOV, V.I., redaktor; MIRLIN, G.A., redaktor; RUSANOV, B.S.,  
redaktor; POTAPOV, V.S., redaktor izdatel'stva; GUROVA, O.A., tekhnicheskiy redaktor.

[Instructions for organization and execution of geological surveys  
in scales of 1:50,000 and 1:25,000] Instruktsiya po organizatsii  
i proizvodstvu geologicheskikh rabot na shtabov 1:50,000 i  
1:25,000. Moskva, Gos.sauchno-tekhn.izd-vo lit-ry po geol. i  
okhrane nedr. 1956. 373 p. (MIRA 10:6)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr.  
(Geological surveys)

ITSIKSON, M.I.

Distribution of tin ore deposits in folded areas. Sov. geol. 1 no.1:  
86-113 Ja '58.  
(MIRA 11:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.  
(Tin ores)

ITSIKSON, M.I., KORMILITSYN, V.S., KRASNYY, L.I., MATVEYENKO, V.T.

Basic metallogenetic characteristics of the northwestern part of  
the Pacific ore belt. Geol. rud. mestorozh. no.1:16-44 Ja-F '60.

(MIRA 13:?)

1. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut  
Leningrad, i Vsesoyuznyy nauchno-issledovatel'skiy institut zolota  
i redkikh metallov.

(Soviet Far East--Ore deposits)

ITSIKSON, M.I.

First All-Union Conference on the Geology and Metallogeny of the  
Pacific Ore Belt. Geol. rud. mestorozh. no.1:119-127 Ja-F '61.  
(MIRA 14:4)  
(Soviet Far East—Ore deposits)

ITSIKSON, M.I.

Connection between metallogeny and abyssal faults in the  
northwestern part of the Pacific ore belt. Geol. rud. mestorosh.  
5 no.2:28-45 Mr-Ap '63. (MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy insti-  
tut, Leningrad.  
(Pacific area—Faults(Geology))  
(Pacific area—Ore deposits)

ITSIKSON, M.I.; MUZYLEV, S.A.

Basic characteristics of the Riphean tectonics in the Far East;  
experience in representing the paleotectonic pattern. Trudy  
VSEGEI 85:149-177 '63. (MIRA 16:11)

VLASOV, G.M.; ITSIKSON, M.I.; KORMILITSYN, V.S.; KRASNYY, L.I.;  
MATVEYENKO, V.T.

Geological prerequisites of the distribution of minerals in the  
eastern part of the U.S.S.R. Sov.geol. 6 no.12:36-57 D '63.

(MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

ITSIKSON, M.I.

Types of mobile belts in the Pacific marginal zone of the U.S.S.R.  
Sov. geol. 7 no.1:10-38 Ja '64. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.

GRUSHEVOY, V.G.; DOMAREV, V.S.; ITSIKSON, M.I.; KORMILITSYN, V.S.;  
MARKOVSKIY, A.P.; MOROZENKO, N.K.; NEKHOROSHEV, V.P.;  
PADALKA, G.L.; SEMENOV, A.I.; SERPUKHOV, V.I.; TATARINOV, P.M.;  
SHATALOV, Ye.T.

Grigorii Sergeevich Labazin, 1898-1963; obituary. Geol..  
rud. mestorozh. 6 no.2:125-126 Mr-Ap '64. (MIRA 17:6)

ITSIKSON, M.I.

Geochemical and metallogenetic characteristics of the mobile  
belts of the Pacific border of the U.S.S.R. Sov. geol. 7  
no.11:18-35 N '64. (MIRA 18:2)

1. Vsesoyusnyy nauchno-issledovatel'skiy geologicheskiy institut.

ULANOVA, M.F.; RAPOPORT, I.B.; POLYAKOVA, A.A.; ITSIKSON, T.M.

Composition of esters obtained in the synthesis from Co and H<sub>2</sub> on  
an iron-copper catalyst. Neftekhimiia 1 no.5:653-660 S-0 '61.  
(MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke  
nefti i gaza i iskusstvennogo zhidkogo topliva.  
(Esters) (Carbon monoxide) (Hydrogen)

ITSKAL, A.A., inzh.

Efficient number of work trains for the electrification of  
railroads. Transp. stroi. 14 no.10:34-35 O '64. (MIRA 18:3)

ITSKANOV, S.R.

Traces of an ancient hydrographic network in the middle Yenisey  
Basin. Izv.AN SSSR. Ser.geog. no.5:93-96 8-0 '56. (MLRA 9:11)

1. Geograficheskiy fakul'tet Moskovskogo gosudarstvennogo  
universiteta imeni M.V. Lomonosova.  
(Yenisey Valley--Paleogeography)

IT'S A K V I C H F . I

Category: USSR/Atomic and Molecular Physics - Low-Temperautre physics

D-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 897

Author : Lifshits, I.M., Itaksevich, F.I.

Title : On the Kinetic Destruction of Superconductivity by an Alternating Field.

Orig Pub : Uch. zap. Khar'kovsk. un-ta, 1955, 64, 45-57

Abstract : The theory of the kinetics of the destruction of superconductivity by an alternating field, developed by I. M. Lifshits (Zh. eksperim. i teor. fiziki, 1950, 20, 834; Referat. Zhurnal Fizika, 1956, 6727) is generalized to take into account the curvature of the specimen and thermal effects. It is shown that the maximum thickness of the normal layer is greater for a cylindrical specimen than for a plane one. The average relaxation speed increases in the same ratio. The authors start with the equation of heat balance to take into account the thermal effects. The resultant equation of motion of the boundary is integrated for the cases of isothermal and adiabatic modes.

Card : 1/1

STOROZHEV, Lev Petrovich; BAGREYEV, V.V., nauchnyy red.; JTSKEVICH,  
G.M., nauchnyy red.; DEMINA, G.A., red.; PERSON, M.N., tekhn.red.

[Collected problems on theoretical mechanics and theory of  
mechanisms and machines] Sbornik zadach po teoreticheskoi mekha-  
nike i elementam teorii mekhanizmov i mashin. Moskva, Vses.  
uchebno-pedagog.izd-vo Trudreservisdat, 1959. 307 p. (MIRA 13:1)  
(Mechanics--Problems, exercises, etc.)  
(Mechanical engineering--Problems, exercises, etc.)

ITSKEVICH, L.

V. Fuchs departs a second time to the South Pole. Inform. biul. Sov.  
antark. eksp. no.45:60 '64. (MIRA 18:1)

ITSKEVICH, L.I.

Oceanographic vessels of the world. Okeanologiya 3 no.4:758 '63.  
(MIRA 16:11)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSKEVICH, L.I.

Study of waves in the U.S.A. Okeanologiya 5 no.2 1973 '65.  
(MIRA 18:6)

APPROVED FOR RELEASE: 08/10/2001

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"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

ITSKEVICH, L.I.

A flying oceanographic laboratory. Okeanologija 3 no.5:944 '63.  
(MIRA 16:11)

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

USSR/Chemistry- Potassium Salt

Aug 52

"Measurements of Specific Heat Between 12 and 300°  
K: Specific Heat and Entropy of Potassium Chloride," P. G. Strelkov, Ye. S. Itskevich, V. M.  
Kostryukov, and G. G. Mirskaya, Inst of Phys Prob  
imeni S. I. Vavilov Acad Sci USSR, Moscow State  
Inst of Measures and Measuring Instruments

"DAN SSSR" Vol 85, No 5, pp 1085-1088

In a specially constructed apparatus, the specific  
heat and entropy of potassium chloride were mea-  
sured. The results agree with those obtained by  
other workers. Submitted by Acad M. M. Dubinin  
1 Jun 52.

239725

TsIKEVICH, E. S.  
USSR/Chemistry

Card 1/1

Authors : Strelkov, P. G., TsIkevich, E. S., Kostryukov, V. N., Mirkaya, G. G., and Samoylov, B. N.

Title : Thermodynamic investigations at low temperatures. Part 2.- Measurement of specific heat of solids and liquids between 12 and 300° K.

Periodical : Zhur. Fiz. Khim. 28, Ed. 3, 459-472, March 1954

Abstract : A vacuum calorimeter arrangement with screening shields was constructed which enables to measure at low temperatures the specific heat of substances which at room temperature are either in solid or liquid states. The vacuum housing of the calorimeter is sectional because of the sectional vacuum compressor functioning at low temperatures. The installation is equipped with all other auxiliary devices. Calibration is made on the empty calorimeter. The described arrangement enables to conduct measurements in a temperature range of from 12-300° K. Three references. Drawings, graphs.

Institution : Acad. of Sc. USSR, the S. I. Vavilov Institute of Physical Problems and the Moscow State Institute of Weights and Measures

Submitted : June 6, 1953

L 04143-67 EWT(m)/T/EWP(t)/ETJ LJP(c) JD  
ACC NR: AP6026682

SOURCE CODE: UR/0181/66/008/008/2349/2354

AUTHOR: Il'ina, M. A.; Itskevich, Ye. S.

ORG: Institute of High Pressure Physics, AN SSSR, Moscow (Institut fiziki vysokikh davlenii AN SSSR)

TITLE: Low-temperature phase diagram of bismuth

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2349-2354

TOPIC TAGS: bismuth, phase diagram, low temperature effect, PHASE TRANSITION

ABSTRACT: The article investigates the phase diagram of bismuth in the pressure range from 25 to 40 kbar at temperatures of 77 to 293K and detects a new transition which in pressure precedes the lattice transitions Bi I  $\rightarrow$  Bi II  $\rightarrow$  Bi III. It is assumed that the transition is associated with change under pressure of the current-carrier energy spectrum. When pressure is reduced at temperatures above 200K only two jumps in electrical resistance occur, although the phase diagram shows that there should be three. One possible explanation is that at these temperatures the pressures at all three transitions differ slightly, while the resistance jumps in the Bi I  $\rightarrow$  Bi II and Bi I  $\rightarrow$  new phase transitions occur in the same direction. This makes it impossible to distinguish transitions during the certain chamber pressure discontinuity.

Card 1/2

L 04143-67

ACC NR: AP6026682

ity which is always present when pressure is decreased. It is possible that there will be direct transition from the new phase into Bi III. Existing data and the good temperature reversibility of the new transition permits the assumption that this transition is electronic in nature and may involve a transition effect from closed to open isoenergetic surfaces. Complete interpretation of the data would require direct measurements of the dependence of basic bismuth energy spectrum parameters on pressure. In conclusion, the authors use this opportunity to thank L. F. Vereshchagin for attention to the work, A. A. Abrikosov and L. A. Fal'kovskiy for discussing the results obtained, and N. V. Baryshev for constant assistance in the experimental work. Orig. art. has: 5 figures.

4

SUB CODE: 07, 20/ SUBM DATE: 03Jan66/ ORIG REF: 006 / OTH REF: 002

Card 2/2 *lsh*

ITSKEVICH, E. S.  
USSR/Chemistry - Specific Heat

Card 1/1

Authors : Strelkov, P. G., Itskevich, E. S., Kostryukov, V. N., and Mirskaya, G. G.

Title : Thermodynamic Studies at Low Temperatures. III. Specific Heat of Potassium Chloride Between 12 and 300° K. Entropy of Potassium Chloride at 298, 16° K.

Periodical : Zhur. Fiz. Khim. Vol. 28, Ed. 4, 645-649, Apr 1954

Abstract : A study of the specific heat of potassium chloride between 12 and 300° K, and the entropy of potassium chloride at 298, 16° K, is presented. Data compiled on the specific heat of potassium chloride at low temperatures indicate that the discrepancies in contemporary measurement methods can cause an error in the entropy at standard temperatures. Seven references; tables; graphs.

Institution : S. I. Vavilov's Institute of Physical Problems of the AS of the USSR, and the Moscow Institute of Measures and Measuring Instruments.

Submitted : June 8, 1953

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6

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FRENCH E.S.

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ITSKEVICH, E.S.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618920009-6"

<sup>VE</sup>  
ITSKEVICH, A. S., Master Phys-Math Sci --(disc) "Thermal capacity of laminated lattice  
at low temperatures." Moscow, 1957, 10 pp, (AS USSR. Inst of Problems in Physics  
im. S. I. Vavilova), 120 copies (KL, No 39, 1957, 90)

AUTHOR ITSKEVICH, E.S., KONTOROVICH, V.M. PA - 2085  
TITLE Heat Capacity of Laminar Structures at Low Temperatures (K teorii  
teploemkosti sloistykh struktur pri nizkikh temperaturakh).  
PERIODICAL Zhurnal Eksperimental'noi i Teoret. Fiziki, 1957, Vol. 32, Nr 1,  
pp 175-177 (U.S.S.R.)  
ABSTRACT Received 3/1957 Reviewed 4/1957  
Heat capacities of laminar and chain-like structures are not subjected  
to the DEBYE-theorem  $C \sim (T/\Theta)^3$  in the case of low temperatures.  
According to I.M.LIFSHITS the deviation from the  $T^3$ -rule is in connection  
with the special role of bending waves in such structures. The anomalous  
form of the dispersion law concerning bending waves leads to an anomalous  
temperature dependence of the energy of crystals. In the case of tempera-  
tures, at which interaction between the layers cannot be neglected, the  
following precise formula is obtained  $(1/A)d/ds(Cs^2) = s^3 d^2/ds^2 \ln \Gamma(s) -$   
 $s(s+1) - 1/6$ . Thus it is easily possible to tabulate heat capacity of  
laminar crystals in the range of lowest temperatures ( $T \ll \gamma\Theta, f\Theta$ ) as a  
function of temperature. A comparison with the experiment is possible,  
although elastic constants for laminar lattices in the temperature range  
investigated are not known. In the case of  $s \rightarrow 0$  it actually holds that  
 $s^2 C/A \rightarrow 0,0914$  (range of quadratic temperature dependence of heat capacity)  
and in the case of  $s \rightarrow \infty$  ( $T \rightarrow 0$ ) it holds that  $s^3 C/A \rightarrow 1/30$  (range of cubic  
dependence). By determining the necessary combinations of the constants  
from the boundary value theorems, it is possible to plot the whole curve.  
Hitherto the necessary experimental data have been lacking. The new data

Card 1/2

Card 2/2

AUTHOR:

ITSKEVICH,E.S., STRELKOV,P.G.

PA - 2958

TITLE:

Heat Capacity of Laminar Lattices at Low Temperatures.

(Teployemnost sloistych reshetok pri nizkikh temperaturakh,  
Russian)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 3, pp 467-477  
(U.S.S.R.)

Received: 6 / 1957

Reviewed: 7 / 1957

ABSTRACT:

The specific heat of the laminar lattices  $CdJ_2$ ,  $CdBr_2$  and  $CdCl_2$  within the temperature range of from  $1,6^\circ$  to  $100^\circ$  K was measured by means of a device which is described in detail. Between  $1,6^\circ$  and  $4^\circ$  K, a  $T^3$ - dependence was found to exist, and between  $4^\circ$  and  $10^\circ$  K an increase of the exponent of dependence was observed, which is assumed to be caused by the weak optical branches of the interaction of the intermediate layers. From  $10^\circ$  K onwards the exponent decreases, in the hydrogen temperature range a quadratic dependence exists the domain of which decreases on the occasion of the transition from  $CdJ_2$  to  $CdCl_2$ . At still higher temperatures a linear domain exists which widens considerably on the occasion of the transition mentioned. A comparison with the theory shows that qualitatively the results obtained do not

Card 1/2

PA - 2958

Heat Capacity of Laminar Lattices at Low Temperatures.

contradict the theory developed by I.M.LIFSHITS (Zhurnal Eksperiment. i Teoret. Fiziki, 1952, Vol 22, pp 471-475), but a quantitative comparison is not possible because of the non-applicability of the assumptions of this theory to the lattices examined. The two-parametric functions by V.V.TARASOV (Dokl.AN SSR 58, 1947, 577) are obviously not suited for a description of the data obtained.  
(4 Illustrations, 1 Table, 29 Citations from Works Published).

ASSOCIATION: Institute for Physical-Technical and Radiotechnical Measurements  
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5(4)

AUTHORS:

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SOV/76-33-7-19/40

TITLE:

Thermodynamic Investigations at Low Temperatures. VIII. Specific Heats of Cadmium Chloride and Iodide Between 1.6 and 300°K. Enthalpy and Entropy of CdCl<sub>2</sub> and CdI<sub>2</sub> at 298.16°K

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 7, pp 1575-1580  
(USSR)

ABSTRACT:

The values of entropy (S) and enthalpy (H) of CdCl<sub>2</sub> and CdI<sub>2</sub> are important from the practical and theoretical standpoint since they refer to substances of an isomorphous series. In the present case, the specific heat of anhydrous CdCl<sub>2</sub> of 100-300°K was measured by means of the same preparation and the same vacuum calorimeter as was done in previous measurements within the range 1.6 to 100°K (Refs 1, 2). From the results obtained (Table 1) and data of the article (Refs 1, 2) the following values of 298.16°K resulted:  $S_{298.16}^{\circ} = 27.55 \pm 0.08 \text{ cal/degree/mol}$  and  $H_{298.16}^{\circ} - H_0 = 3791.3 \pm 11.4 \text{ cal/mol}$ . According to the data

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Thermodynamic Investigations at Low Temperatures. S07/76-33-7-19/40  
VIII: Specific Heat of Cadmium Chloride and Iodide Between 1.6 and 300°K.  
Enthalpy and Entropy of CdCl<sub>2</sub> and CdJ<sub>2</sub> at 298.16°K

of (Ref 3), approximate values were obtained for the melting temperature of CdCl<sub>2</sub>:  $S_{841.2^{\circ}\text{K}}^{\text{solid}}$  = 48.09 cal/degree·mol and  $H_{841.2^{\circ}\text{K}}^{\text{solid}}$  -  $H_0$  = 14789 cal/mol. CdJ<sub>2</sub> was measured in the same manner as CdCl<sub>2</sub>. The measurement results (Table 2) presented the following values at 289.16°K:  
 $S_{298.16}^{\text{c}}$  = 37.67 ± 0.09 cal/degree·mol and

$H_{298.16} - H_0$  = 4512.2 ± 11.3 cal/mol. Measurements of the specific heat of CdJ<sub>2</sub> at 260 ~ 275°K, which were made by means of two different samples with a "prc analysi" degree of purity, showed no anomalies of specific heat at 267-270°K. It is therefore assumed that the varying anomaly of the curve of specific heat of CdJ<sub>2</sub> near 270°K (Ref 4) does not refer to the specific heat of the crystal lattice. There are 3 figures, 2 tables, and 4 references, 3 of which are Soviet.

SUBMITTED: January 4, 1958  
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*54800*S/076/60/034/06/25/040  
B015/B061AUTHORS: Itskevich, Ye. S., Strelkov, P. G. (Moscow)TITLE: Thermodynamic Studies at Low Temperatures. IX. Specific Heat of Cadmium Bromide Between 1.5 and 300°K. Enthalpy and Entropy of CdBr<sub>2</sub> at 298.15°KPERIODICAL: Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 6,  
pp. 1312-1315

TEXT: In addition to preceding determinations at 1.5 to 80°K (Refs. 1, 2) the specific heat of CdBr<sub>2</sub> from 80° to 300°K was measured, and the enthalpy and entropy for the standard temperature were calculated. The work was carried out by the method described in Refs. 1, 3. Part of the results is given in Table 1. The values calculated are:  $S_{298.15}^{\circ} = 33.18 \pm 0.08$  cal/degree·mole;  $H_{298.15}^{\circ} - H_0^{\circ} = 4235.3 \pm 12.7$  cal/mole.

The entropy value obtained was compared with those calculated by V. A. Kireyev (Ref. 5) for CdCl<sub>2</sub>, CdBr<sub>2</sub>, and CdI<sub>2</sub>, and agreement (Table 2) within

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Thermodynamic Studies at Low Temperatures. S/076/60/034/06/25/040  
IX. Specific Heat of Cadmium Bromide Between 1.5 and 300°K. Enthalpy and Entropy of CdBr<sub>2</sub> at 298.15°K B015/B061

the limits of error (4%) was established. An entropy value calculated by M. Kh. Karapet'yants' formula (Ref. 6) agreed with the value in question within the same limits of error (4.2%). E. G. Pinsker is mentioned in the text. There are 2 figures, 2 tables, and 7 Soviet references.

ASSOCIATION: Institut fiziko-tehnicheskikh i radiotekhnicheskikh izmereniy (Institute of Physical, Technical, and Radiotechnical Measurements)

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